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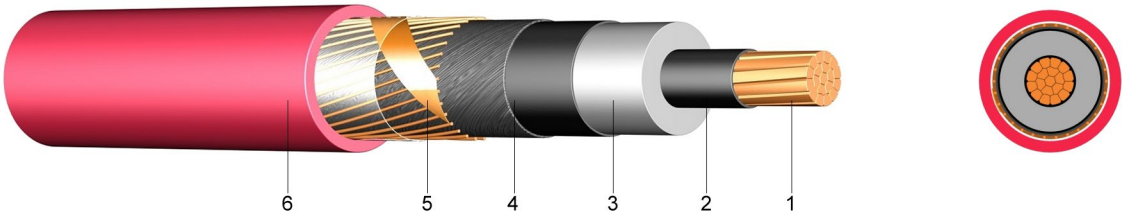
RG26H1M16 105 °C

Medium voltage cable, 12/20 kV
+90 °C service temperature, single core, zero halogen sheath
UNEL 35334, HD620, CEI 20-13 and IEC 60502-2

Application

Zero halogen medium voltage cable with improved fire characteristics for power stations, industrial applications and distribution networks. Zero halogen cables are suitable for installation in environments where smoke and toxic fumes may threaten life or valuable equipment. The good installation properties of this cable make installation easy, even on challenging routes and in difficult conditions. For fixed installation indoors and outdoors, in ground, in water and in cable ducts where mechanical damage is not expected. Outdoor laying only permitted when protected from direct sunlight and other external impacts.

Construction



1. Conductor: Copper conductor, bare, stranded (class 2)
2. Inner semi-conductive layer: Extruded semi-conductive material
3. Insulation: Elastomeric mixture (G26 Type)
4. Outer semi-conductive layer: Extruded cold strippable semi-conductive material
5. Screen: Copper wires with helix copper tape
6. Outer sheath: Halogen free compound, red (M16 Type)

Technical information

Rated voltage	U_0/U	12/20 kV
Max. permitted operating voltage	U_{max} AC	24 kV
Test voltage	AC	42 kV
Max. permissible temperature at conductor		105 °C
Max. short circuit temperature of the conductor		300 °C (max. 5 sec)
Min. temperature during installation		-5 °C
Min. bending radius mm	fixed installation	12 x outer diameter in mm
Max. tensile load on the conductor		60 N / mm²

Safety parameters

Reaction to fire	single cable	EN 50399 Cca – s1b, d1, a1

Additional parameters

Underground installation		AD7 (immersion) in accordance with Art. 4.3.11 of IEC 11-17

Issue 21.03.2023

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N° of cores and cross section	Conductor diameter	Insulation diameter	Outer diameter	Current carrying capacity in air		Current carrying capacity in ground [1]		Weight
				Trefoil	Flat	Trefoil	Flat	
mm²	approx. mm	approx. mm	approx. mm	A	A	A	A	approx. kg/km
1 x 35 rm	7,0	17	31,2	212	248	199	206	1250
1 x 50 rm	8,1	18	31,7	253	297	235	244	1300
1 x 70 rm	9,8	19	32,8	316	373	288	299	1570
1 x 95 rm	11,4	21	34,5	385	455	345	358	1870
1 x 120 rm	12,9	22	36,4	445	525	392	406	2190
1 x 150 rm	14,2	24	37,0	506	595	440	454	2500
1 x 185 rm	15,8	25	39,5	581	680	496	512	2960
1 x 240 rm	18,2	28	42,4	688	802	574	591	3580
1 x 300 rm	20,5	31	46,0	790	916	647	664	4280
1 x 400 rm	23,2	33	49,3	914	1049	730	756	5260
1 x 500 rm	26,4	37	53,5	1058	1208	828	848	6460
1 x 630 rm	30,4	40	59,0	1219	1379	927	940	8100

	Max. electrical resistance at 20°C	Conductor apparent resistance at 105°C and 50Hz		Phase reactance Ω/km		Capacity at 50Hz
	Ω/km	Trefoil	Flat	Trefoil	Flat	µF/km
1 x 35 rm	0,524	0,669	0,669	0,13	0,19	0,20
1 x 50 rm	0,387	0,517	0,517	0,13	0,18	0,22
1 x 70 rm	0,268	0,358	0,358	0,12	0,18	0,25
1 x 95 rm	0,193	0,258	0,258	0,11	0,17	0,29
1 x 120 rm	0,153	0,205	0,205	0,11	0,17	0,31
1 x 150 rm	0,124	0,166	0,166	0,11	0,16	0,34
1 x 185 rm	0,0991	0,134	0,134	0,10	0,16	0,37
1 x 240 rm	0,0754	0,102	0,102	0,10	0,16	0,41
1 x 300 rm	0,0601	0,083	0,082	0,095	0,15	0,46
1 x 400 rm	0,0470	0,066	0,065	0,093	0,15	0,49
1 x 500 rm	0,0366	0,053	0,052	0,090	0,15	0,56
1 x 630 rm	0,0283	0,043	0,041	0,087	0,14	0,62

Current carrying capacity: closed trefoil formation
[1] Ground temperature 20 °C; laying depth 0,8 m; soil thermal resistivity 1,0 Km/W

La version française de cette fiche technique est disponible sur demande.
De technische gegevens zijn op aanvraag in het Nederlands beschikbaar.

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